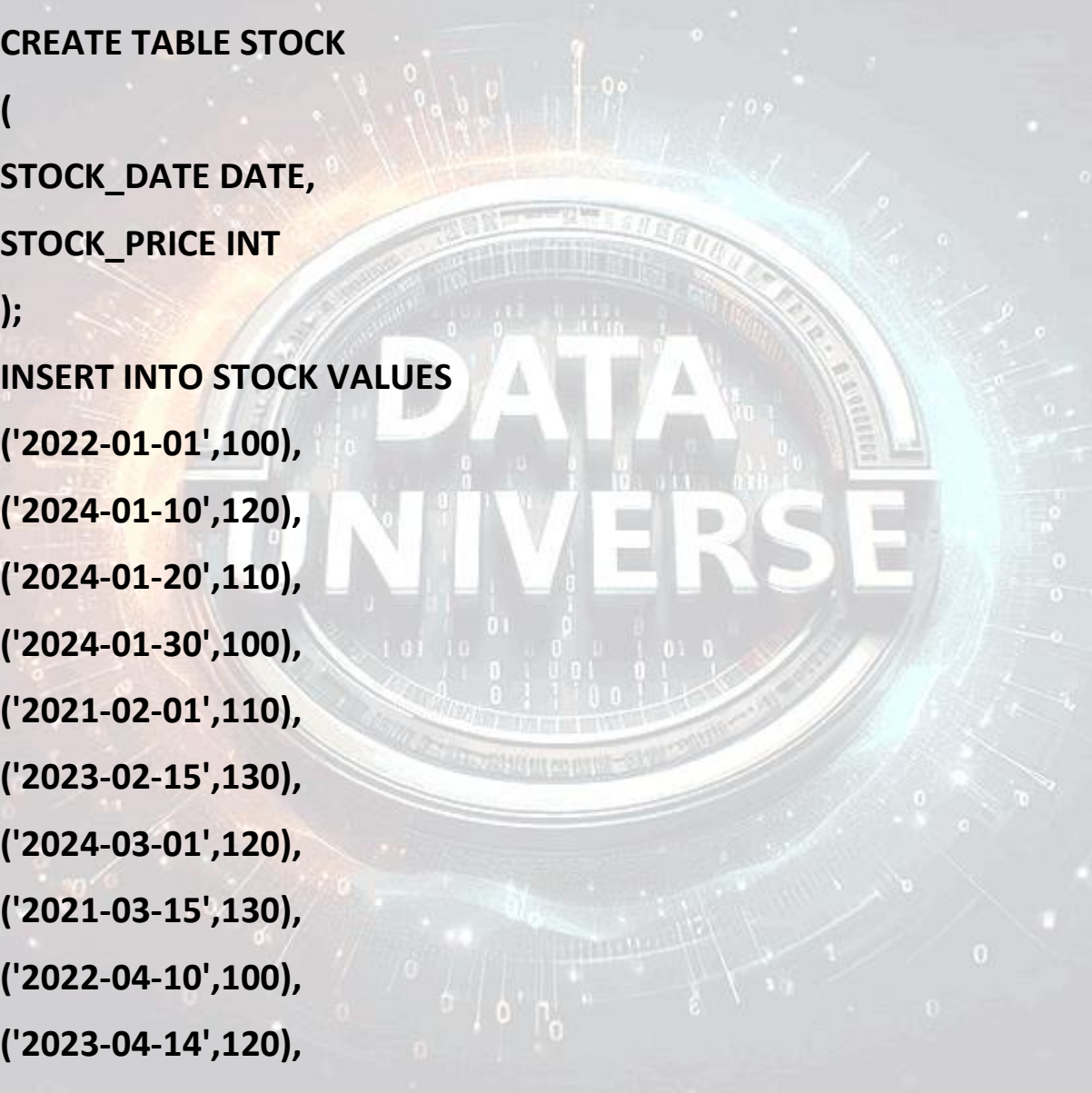


SCENARIO BASED SQL QUESTIONS & ANSWERS

CALCULATE A ROLLING AVERAGE OF STOCK PRICE FOR 3 MONTHS?



```
CREATE TABLE STOCK
(
  STOCK_DATE DATE,
  STOCK_PRICE INT
);
INSERT INTO STOCK VALUES
('2022-01-01',100),
('2024-01-10',120),
('2024-01-20',110),
('2024-01-30',100),
('2021-02-01',110),
('2023-02-15',130),
('2024-03-01',120),
('2021-03-15',130),
('2022-04-10',100),
('2023-04-14',120),
('2023-04-18',110),
('2022-05-26',120),
('2022-05-10',130);
SELECT * FROM STOCK;
```

/*-----AGGREGATE STOCK PRICE BY MONTH-----*/

**SELECT EXTRACT (MONTH FROM STOCK_DATE) AS MONTH,
AVG(STOCK_PRICE) AS MONTHLY_STOCK_PRICE
FROM STOCK GROUP BY MONTH ORDER BY MONTH;**

/*-----DEFINING ROLLING WINDOW USING ROWS BETWEEN ---*/

WITH CTE AS

**(
SELECT EXTRACT (MONTH FROM STOCK_DATE) AS MONTH,
AVG(STOCK_PRICE) AS MONTHLY_STOCK_PRICE
FROM STOCK GROUP BY MONTH ORDER BY MONTH
)
SELECT *, ROUND(AVG(MONTHLY_STOCK_PRICE)
OVER (ORDER BY MONTH
ROWS BETWEEN 2 PRECEDING AND CURRENT ROW),2) AS
ROLLING_AVERAGE_3MONTH
FROM CTE;**